

## 2004 SMALL MUNICIPAL SEPARATE STORM SEWER SYSTEMS (MS4s) ANNUAL REPORT – Due March 10, 2005

*By completing this annual report form, you are “providing the Minnesota Pollution Control Agency (MPCA) with a summary of your status of compliance with permit conditions, including an assessment of the appropriateness of your identified best management practices and progress towards achieving your identified measurable goals for each of the minimum control measures” as required by the MS4 Permit. Use of this form is not mandatory; however, you must address all the questions and cross reference in a clear format.*

Name of MS4: City of Rochester

Contact Person: Barb Huberty

Telephone Number: (507) 529-4907

Address: Rochester Public Works Department  
201 4<sup>th</sup> St. SE, Room 108  
Rochester, MN 55904

### 1. Public Education and Outreach on Stormwater Impacts

	Yes	No
a. Did you hold a public meeting on your Stormwater Pollution Prevention Program (SWPPP)? [Part V.G.1.e]	X	

b. How many individuals attended?                     

c. If you did not comply with this requirement, explain why. Please attach a separate sheet labeled 1c. **Not applicable**

d. What was the date of the public meeting? **3/21/05**

e. In what newspaper or publication of general interest did you publish the public notice of your meeting? [Part V.G.1.e.2] **Rochester Post Bulletin**

f. On what date was it published? **2/18/05**

*NOTE: Please retain a copy of the public notice in your records.*

*You must hold your public meeting before March 10, 2005.*

g. You must implement a public education program to distribute educational materials to the community or conduct equivalent outreach activities about the impacts of stormwater discharges on water bodies and the steps that the public can take to reduce pollutants in stormwater runoff. *Please provide a status update concerning your efforts in developing this program. Please provide your response below or attach a separate sheet labeled 1g. **Public education activities were completed as planned: availability of information on the Storm Water Web Site; presentations as requested; and press releases as needed.***

h. You must specifically implement an education program that individually addresses each Minimum Control Measure:

- 1) Public education and outreach;
- 2) Public participation;
- 3) Illicit discharge detection and elimination;
- 4) Construction site stormwater runoff control;
- 5) Post-construction stormwater management in new development and redevelopment; and
- 6) Pollution prevention/good housekeeping for municipal operations.

*Please provide a status update concerning your efforts to implement this education program for each of the Minimum Control Measures. Provide your response below or provide a separate sheet labeled 1h. Baseline information on each MCM was provided as planned in the 2003 SWPPP schedule. Additional information has been provided, as appropriate, through press releases (fall leaf management [3], storm water pond safety [5]); RNeighbors Newspaper articles (planned '05 storm water management projects [5], lawn care practices [2,3], watershed education [1], vehicle care [2,3], litter bag art contest [2], public participation opportunities [2]); distribution of litter bags at the RochesterFest parade [1,2,3]; Sesquicentennial display [1,2,5]; maintenance of kiosk materials and the Storm Water Web site, and rotating City Hall displays [1-6]; handouts at the Master Gardeners', Mayors', and Rochester Public Utilities' County Fair booths [1,2,3], two ESC workshops [4], one fen workshop [5]; distribution of a storm water contacts list [2]; five presentations [1-6]; seven articles in the Rochester Post Bulletin [1-3], and three staff training sessions [3-6]. It is estimated that over 235,000 public education contact opportunities were created through these activities.*

## 2. Public Participation/involvement

a. During your public meeting, did you receive written and/or oral input on your SWPPP? [Part V.G.2.b.1-3]	Yes	No
<i>NOTE: Input must be considered prior to submittal of your annual report.</i>		
b. Did you create a record of comments and your response to comments/record of decision (ROD)?	Yes	No
c. Have you kept the ROD in accordance with the permit? [Part V.G.2.b]	Yes	No
d. Do you plan to incorporate any comments into your next SWPPP update? [Part V.G.2.c]	Yes	No
<b>Additional public participation activities included promotion of volunteer opportunities on the Storm Water web site, working with Summer of Service volunteers to collect litter around storm water ponds and drainage ways and to install storm drain markers; coordinating storm drain marking with Lourdes community service students; collaborating with Montessori and John Adams students completing storm water management projects; and the development of complaint processing procedures</b>	Yes X	No

## 3. Illicit Discharge Detection and Elimination

You must develop, implement and enforce a program to detect and eliminate illicit discharges as defined at 40 CFR 122.26(b)(2) into your SWPPP. You must also select and implement a program of appropriate **BMPs** and measurable goals for this minimum control measure.

- a. You must develop, if not already completed, a storm sewer system map showing the location of:
  - 1) Ponds, streams, lakes and wetlands that are part of your system;
  - 2) Structural pollution control devices (grit chambers, separators, etc.) that are part of your system;
  - 3) All pipes and conveyances in your system, as a goal-but at minimum-those pipes that are 24 inches in diameter and over;
  - 4) Outfalls, including discharges from your system to other MS4s, or waters and wetlands that are not part of your system (where you do not have operational control); structures that discharge stormwater directly into groundwater; overland discharge points and all other points of discharge from your system that are outlets, not diffuse flow areas.

*Please provide a summary of your efforts in developing this map. Provide your response below or use a separate sheet labeled 3a.* **Our GIS system already contains data layers for Hydric and Hydric & Floodplain Soils and the National Wetland Inventory. This year, new electronic data layers for our GIS system were created to show the location of DNR-listed protected waters (streams and lakes) and the locations of wetland application sites (up through 2002). The storm water pond data layer was updated to incorporate new storm water ponds as they were completed (32 new ponds in 2004). In late 2004, a complete Quality Assurance/Quality Control review of pond related data was initiated to improve accuracy and to incorporate additional data fields. The storm water pipe and storm water points data layers were updated with 15,160 linear feet of new pipe and 190 new storm points. The locations of 287 outfalls were also added as a new, discrete data layer.**

- b. You must, to the extent allowable under law, effectively prohibit, through ordinance or other regulatory mechanism, non-stormwater discharges from entering into your storm sewer;
- c. You must develop and implement a program to detect and address non-stormwater discharges, including illegal dumping, to your system;
- d. You must inform employees, businesses, and the general public in your **MS4** area of hazards associated with illegal discharges and improper disposal of waste;
- e. You must address the following categories of non-stormwater discharges or flows (i.e., illicit discharges), only if you identify them as significant contributors of pollutants to your small **MS4**:

water line flushing, landscape irrigation, diverted stream flows, rising ground waters, uncontaminated ground water infiltration (as defined at 40 CFR 35.2005(20)), uncontaminated pumped ground water, discharges from potable water sources, foundation drains, air conditioning condensation, irrigation water, springs, water from crawl space pumps, footing drains, lawn watering,

truck and car washing, flows from riparian habitats and wetlands, dechlorinated swimming pool discharges, and street wash water, discharges or flows from fire fighting activities.

*Please provide a status update concerning your efforts to meet these permit conditions. Please provide your response below or provide a separate sheet labeled 3b-e. The effort to address these requirements was to take place between 2004 and 2005. Because the effort to complete the erosion and sediment control ordinance update was greater than expected, initiation of this task will be deferred.*

**Our SWPPP contained several additional IDDE BMPs. Other planned tasks that were completed include:**

- ☐ **Continued elimination of failing septic systems under the Water Quality Protection Program (5 projects installing sewer main were completed, 200 service stubs from the sewer mains to private property were constructed, 195 homes connected to the service stubs, and 195 septic systems were abandoned)**
- ☐ **Continued collection of RV sewage at the RWRP Sewage Pump Out Stations (~783 discrete uses for ~4,532 gallons of sewage collected and treated)**
- ☐ **12 illicit discharge responses ranging from dumping into catch basins, vehicle fluid leaks on streets, grass/brush/garbage dumping into drainage ways, permitted industrial discharges and one unidentifiable discharge into a creek**

#### **4. Construction Site Stormwater Runoff Control**

You must develop, implement, and enforce a program to reduce pollutants in any stormwater runoff to your small **MS4** from construction activities within your jurisdiction that result in a land disturbance of greater than or equal to one acre or is less than one acre but is part of a common plan of development that will be one acre or greater. You must also select and implement a program of appropriate **BMPs** and measurable goals for this minimum control measure, at minimum:

- a. An ordinance or other regulatory mechanism to require erosion and sediment controls, as well as sanctions to ensure compliance, to the extent allowable under law. These ordinances or regulatory mechanisms must be in place by March 11, 2005;
- b. Requirements for construction site operators to implement appropriate erosion and sediment control best management practices;
- c. Requirements for construction site operators to control waste, such as discarded building materials, concrete truck washout, chemicals, litter, and sanitary waste at the construction site that may cause adverse impacts to water quality;
- d. Procedures for site plan review which incorporate consideration of potential water quality impacts;
- e. Procedures for receipt and consideration of reports of non compliance or other information on construction related issues submitted by the public, and

- f. Procedures for site inspection and enforcement of control measures.

*Please provide a status update concerning your efforts to meet this permit condition. Please provide your response below or provide a separate sheet labeled 4.* **Rochester already has several ordinances and procedures in place to address construction site erosion and sediment and drainage control, require erosion and sediment control plans as part of grading and drainage plans, procedures for site plan review, erosion complaint response, and construction site inspection and enforcement. Olmsted County is the local solid waste authority that administers the local solid waste ordinance. Regardless, an Erosion and Sediment Control Task Force was established with construction industry representatives to provide recommendations to the City Council on potential erosion and sediment control ordinance changes. This group met from June through December 2004 and developed recommendations to improve erosion, drainage, and waste control. Their recommendations were presented to the City Council at a Committee of the Whole Meeting on 3/7/05. At the request of the Council, those recommendations will be presented to area developers and builders on 3/22/05. Staff are to then return to the Council with developer/builder feedback, cost implications, and suggested language changes.**

**Rochester completed additional activities as planned in their SWPPP, including:**

- ☐ **Inspecting 67 construction projects/sites for erosion and sediment control compliance, with an average of 4 inspections per site (totaling approximately 268 inspections)**
- ☐ **Reviewing and/or approving 135 Subdivision grading plans and 54 Individual Lot grading plans**
- ☐ **Responding to 109 erosion and sediment control complaints**
- ☐ **Review 47 site development plans and 23 general development plans and provide referral comments on the adequacy of storm water management plans for grading/drainage/erosion control**

#### **5. Post-construction Stormwater Management in New Development and Redevelopment**

You must develop, implement, and enforce a program to address stormwater runoff from new development and redevelopment projects within your jurisdiction that disturb greater than or equal to one acre, including projects less than one acre that are part of a larger common plan of development or sale that discharge into your small **MS4**. Your program must ensure that controls are in place that would prevent or reduce water quality impacts. You must also select and implement a program of appropriate **BMPs** and measurable goals for this minimum control measure. At minimum:

- a. Develop and implement strategies which include a combination of structural and/or non-structural best management practices (**BMPs**) appropriate for your community;
- b. Use an ordinance or other regulatory mechanism to address post-construction runoff from new development and redevelopment projects to the extent allowable under law; and
- c. Ensure adequate long-term operation and maintenance of **BMPs** installed as a result of these requirements.

*Please provide a status update concerning your efforts to meet this permit condition. Please*

*provide your response below or provide a separate sheet labeled 5.* Rochester already has plans, ordinances, procedures, and funding mechanisms in place to address post-construction storm water management issues. This involves the review and approval of development and grading/drainage plans with adequate storm water management provisions and required construction of local and regional storm water management ponds. Additionally, the Capital Improvement Project budget includes money for stabilization of drainage ways and the Operations budget has funds for inspection and maintenance of storm water management facilities. In 2004, the following post-construction storm water management BMPs were completed:

- ☐ Completion of three Storm Water Management Plan addenda for the Northwest Territories, Hadley Valley and Bear Creek watersheds
- ☐ Design of 31 new public storm water ponds (of which 20 have been completed and 11 are still in progress)
- ☐ Design of 14 new private storm water ponds (of which 12 have been completed and 2 are still in progress); Maintenance Agreements have been executed for 11 of these ponds
- ☐ Completion of 6 slope and drainage way stabilization projects (drainage way adjacent to Brook Ln, drainage way downstream of the Salem Heights Townhomes pond, the Elton Hills Ravine, Rocky Creek, extension/directional correction of the Lincolnshire flume; and extension of Willow Heights Dr. culvert
- ☐ Construction of 15,160 LF of new storm sewer and 190 storm points (catch basins, aprons, manholes, etc.) in conjunction with new development
- ☐ Replacement of a surface drainage way with inadequate capacity with a new storm sewer between Eagle Ridge and 2<sup>nd</sup> St. SW
- ☐ Review and/or approval of 135 Subdivision grading plans and 54 Individual Lot grading plans
- ☐ Comment on one Fen Management Plan
- ☐ Development of Fen Management brochures for Barony Woods and Stonehedge to be used with neighborhoods to insure implementation of Fen Management Plans
- ☐ Issuance of 96 grading permits
- ☐ Approval of 47 Site Development Plans and 23 General Development Plans
- ☐ Inspection of 49 storm water ponds
- ☐ Survey of 13 ponds for capacity evaluation
- ☐ 2 ponds repaired and/or cleaned (#3 North Park – remove sediment, increase capacity, and replace outlet structure; #37 Baily Meadows 1<sup>st</sup> – modify overflow outlet)
- ☐ Research pond nuisance management needs; determination of no action needed with respect to mosquito control; preparation of woody vegetation management and mowing/litter control contracts
- ☐ Development of policies to enable transfer of private residential ponds meeting standards to the City
- ☐ Development of encroachment policy to act on easement impediments & dumping (will need to be revisited at a later date)

#### **6. Pollution Prevention/Good Housekeeping for Municipal Operations**

- a. You must develop and implement an operation and maintenance program that includes a training component and has the ultimate goal of preventing or reducing pollutant runoff from municipal operations. Training materials that are available from the USEPA, state and regional agencies, or other organizations may be used as appropriate or modified for your community. Your program must include employee training to prevent and reduce

stormwater pollution from activities such as park and open space maintenance, fleet and building maintenance, new construction and land disturbances, and stormwater system maintenance.

*Please provide a status update concerning your efforts in developing a Pollution Prevention Plan. Please provide your response below or provide a separate sheet labeled 6a. Each City Department is responsible for the development and implementation of procedures that control runoff and prevent pollution. However, due to a lack of staff time, an individual audit of each department's procedures has not yet been initiated.*

**Inspection and maintenance procedures for storm sewer infrastructure are in place, however. In 2004, the following activities were completed:**

- ☐ 282 outfalls were inspected and electronically located for addition to the GIS database
- ☐ 35 outfalls were maintained
- ☐ 1,995 curb miles of streets were swept
- ☐ 2,448 catch basins were cleaned
- ☐ 200 catch basins were repaired
- ☐ 25 catch basins were replaced

**The SWPPP also includes a BMP for record keeping and reporting. In 2004, the ASIST storm water program was evaluated to determine which modules were applicable for Rochester use, a spreadsheet outfall inspection and maintenance tracking system was developed and later upgraded to utilize a GPS data collection unit, and electronic erosion and sediment control inspection systems were evaluated for hand-held computer modules.**

b. Did you identify and inspect <u>all</u> of your structural pollution control devices such as trap manholes, grit chambers, sumps, floatable skimmers and separators, etc.? [Part V.G.6.b.2] <b>Not applicable</b>	Yes ---	No ---
c. How many structural pollution control devices do you have in your MS4 system? <b>0</b>		
d. How many structural pollution control devices did you inspect? <b>0</b>		
e. Calculate the percentage <b>Not applicable</b>		
<i>NOTE: If less than 100 % were inspected, please explain why below or on a separate sheet labels 6e.</i>		
f. Did you repair, replace, or maintain any structural pollution control devices? <b>Not applicable.</b>	Yes ---	No ---
g. Briefly, summarize any significant unscheduled (not routine) maintenance or improvement activities stemming from inspections of your structural pollution control devices. What changes have been made to your SWPPP as a result? <i>Please explain below or attached a separate sheet labeled 6g.</i> <b>Not applicable</b>		
h. Did you identify and inspect at least 20% of your outfalls, sediment basins, and ponds? [Part V.G.6.b.3]	Yes <b>X</b>	No

<ol style="list-style-type: none"> <li>1. How many outfalls, basins and ponds do you have? 750 outfalls and 77 public basins/ponds</li> <li>2. Indicate if this number known or estimated? Outfalls are estimated, ponds are known.</li> <li>3. How many of you outfalls, sediment basins, or ponds did you inspect? 282 outfalls and 49 basins/ponds</li> <li>4. What percentage is this? 38% of outfalls and 64% of ponds</li> <li>5. If less than 20% of your outfalls, sediment basins and ponds were inspected, please explain why below or on a separate sheet labeled 6h-5. <b>Not applicable</b></li> </ol>		
<p>Briefly, summarize the dates of completion of major additional protection measures triggered by your inspections. [Part V.G.6.b.4]. <i>Attach a separate sheet if necessary labeled 6h-6.</i> <b>Pond inspections led to two ponds being repaired and/or cleaned during summer 2004 (#3 North Park – remove sediment, increase capacity, and replace outlet structure; #37 Baihly Meadows 1<sup>st</sup> – modify overflow outlet). Three additional ponds were identified in late 2004 for sediment cleanout as a result of surveying 13 ponds; these will need to be completed as winter 2005 tasks. Thirty-three of the 152 outfalls inspected in 2003 needed obstruction removal or cleaning, which was accomplished during the spring, summer and fall of 2004. Two of the outfalls needed some minor erosion stabilization and these sites had additional rip rap placed at the outlet in fall 2004 to accomplish this.</b></p>		
<b>7. Additional SWPPP Issues</b>		
<ol style="list-style-type: none"> <li>a. Did you make a change to any identified best management practices or measurable goals that were submitted with your permit application? [Part V.G.6.b.1] If you responded yes, explain under part b..</li> </ol>	Yes	No <b>X</b>
<ol style="list-style-type: none"> <li>b. Briefly list the best management practices using their unique identification numbers you used in your SWPPP or any measurable goals that will be changed in your updated SWPPP, and why they have changed. <i>Attach a separate sheet if necessary labeled 7b.</i></li> </ol> <p><input type="checkbox"/> <b>VG1a.4(2) Development of new employee orientation materials that will provide staff training on general storm water management issues. Inadequate staff time – deferred to 2005.</b></p> <p><input type="checkbox"/> <b>VG1a.5 Develop comprehensive educational plan. Inadequate staff time – deferred to a new schedule as yet to be determined in the new permit SWPPP.</b></p> <p><input type="checkbox"/> <b>VG3b Develop a regulatory mechanism to prohibit unauthorized non-storm water discharges into the MS4. Inadequate staff time – deferred to a new schedule as yet to be determined in the new permit SWPPP.</b></p> <p><input type="checkbox"/> <b>VG6a O&amp;M Plans and job-specific staff training. Inadequate staff time – being with RPW operations in 2005, with remaining Departments to follow.</b></p>		
<ol style="list-style-type: none"> <li>c. Did you rely on any other entities to satisfy any portion of your SWPPP? If yes, please identify below the entity and for what activities.</li> </ol>	Yes	No <b>X</b>



- d. Do you discharge to waters with a restricted discharge? See Appendix C Part B; you may view the applicable rules at [www.pca.state.mn.us/water/water\\_mnrules.html](http://www.pca.state.mn.us/water/water_mnrules.html). If you need assistance with this determination, contact Keith Cherryholmes at (651) 296-6945

Yes  
X

No

**DNR has officially listed one calcareous fen as an Outstanding Resource Value Water with a restricted discharge within Rochester's City limits, the High Forest Fen, located at the southeastern-most edge of the City. DNR identified two additional wetlands as being calcareous fens in 2003, however, these have not yet been listed as Outstanding Resource Value Waters. They are the Stonehedge Fen and the Mutchler Fen. Regardless of their status in rules, the same evaluation was conducted for all three fens. Aerial photography (2003) was used to estimate the values presented in the table below for each minor watershed in which the fen is located.**

*If your answer is no, skip ahead to the certification.*

*If your answer is "yes," please attach the following information below or on a separate sheet labeled 7d.*

*(No response is needed unless there was a change in listing during 2004)*

- a. A map of the watersheds where your MS4 discharges to the waters with restricted discharge. (Use a USGS map or equivalent) **See attached**
- b. A narrative estimate of the impervious surfaces where your MS4 discharges to the waters with restricted discharge (estimated total impervious from land use and zoning or existing data can be used if available).

Fen Name	Water-shed ID	Size of Water-shed	Acres of Watershed Upgradient of Fen	Impervious Acres Upgradient of Fen	Land Use Upgradient of Fen
High Forest	wc-a3.2	810 acres	82 acres (12%)	8 acres (10%)	12 ac Airport (14.6%) 70 ac Agriculture (85.4%)
Stonehedge	hv-a1.11	243 acres	75 acres (31%)	9 acres (12%)	37 ac Undeveloped (51%) 14 ac Urban residential (19%) 24 ac Agriculture (32%)
Mutchler	wc-a.6.9	291 acres	169 acres (58%)	16 acres (10%)	83 ac Undeveloped (49%) 86 ac Urban residential (51%)

- c. A narrative estimate of the future / projected impervious surfaces where your MS4 discharges to the waters with restricted discharge (using available zoning or planning information that may affect your future discharges).

Fen Name	Watershed ID	Future Land Use Upgradient of Fen	Estimated Future Impervious Acres Upgradient of Fen
High Forest	wc-a3.2	12 acres Airport (14.6%) 70 acres Agriculture (85.4%)	8 acres (10%)
Stonehedge	hv-a1.11	35 acres Undeveloped (47%) 40 acres Urban residential (53%)	26 acres (35%)
Mutchler	wc-a.6.9	116 acres Urban residential (69%) 53 acres Open Space (31%)	26 acres (15%)

**HIGH FOREST FEN:** No future land use changes are anticipated in the upgradient portion of the watershed that could affect the High Forest fen. All the upgradient parcels are owned by the City. There are no runway or TH 63 expansions planned for this area. Since this area is within the flight path of the runway, no structures may be constructed, further limiting future development.

**STONEHEDGE FEN:** New development upgradient of the Stonehedge fen will consist of approximately 26 additional acres of residential lots increasing the percentage of impervious area at full build out from 12% to 35%. The developer of Stonehedge has a DNR-approved fen management plan that includes an appropriate storm water management approach along with natural resource preservation to protect the integrity of the fen. The fen and its wetland fringe will be preserved on a separate outlot. Storm water will be directed away from the fen into a treatment pond that will allow for post-treatment surface water discharge and infiltration downgradient of the fen. Additionally, DNR has approved a plan for upgradient infiltration of storm water to help sustain groundwater flows to the fen.

**MUTCHLER FEN:** It is expected that an additional 30 acres will be developed with residential lots, increasing the percent imperviousness at full build out from 10% to 15%. After full build out, almost 31% of the area upgradient of the Mutchler fen will be left as open space. The existing abutting subdivision has atypically large lots for an urban subdivision and was designed with rural cross section roads to allow for greater than average storm water control within the boundaries of the subdivision. Runoff from larger storm events is captured in a storm water management pond that allows for water quality treatment prior to overland flow downgradient of the fen. Two residential subdivisions abutting the Mutchler fen are in the planning stages. The subdivision upgradient of the fen has a DNR-approved fen management plan that includes an integrated storm water management approach to protect the integrity of the fen. It will include on-lot detention with rain gardens, infiltration check dams, and storm water ponds. The second subdivision is the property on which the fen is located. There will be no development in the area of the fen or its wetland fringe. Discussions are currently underway with the DNR to determine if DNR wishes to designate this tract of open space as a Scientific and Natural Area.

- d. A narrative estimate of how your SWPPP can be altered to eliminate new or expanded discharges to the waters with restricted discharge. This consists of your preliminary plan to avoid, divert, or eliminate discharges to restricted waters, whenever possible.

Several existing processes allow for the planning and design of residential subdivisions in a manner that is protective of fens. The General Development Plan (GDP) review and approval process requires identification and delineation of wetlands (including fens) and must address the developer's plans to avoid, minimize, or mitigate negative wetland impacts, including selection of fen-appropriate storm water management approaches. In the case of fens, mitigation is not an option and selected storm water management approaches must prevent direct discharge to the fen. Furthermore, the developer is responsible for developing a fen management plan that the DNR must approve before taking any further steps. To date, developers and the DNR have been successful in finding mutually acceptable process to provide appropriate storm water management BMPs as well as other BMPs that are fen-protective, such as the inclusion of infiltration trenches, rock checks, and rain gardens to promote adequate ground water recharge. Subsequent to the GDP submittal, review and approval of the site grading and drainage plan is required. This allows for the refinement of the overall development design, as necessary to meet the City's development and natural resource protection objectives. As final plats are approved by the City Council, the developer must enter into a Development Agreement with the City that outlines special obligations, such as the long-term fen monitoring and maintenance obligations. These processes are already included in the SWPPP and will not be modified.

The City, in cooperation with several partners including the DNR, submitted an LCMR grant application in 2/04 to enable several fen initiatives. This grant was not awarded, so the City has been moving forward with grant components as time and money become available. To date, the City, with the assistance of DNR, has developed a "fen-friendly neighbor" brochure to be used with residents near fens. Rochester Public Utilities has undertaken a test remote sensing flight to determine the adequacy of thermal imaging to identify groundwater discharge locations. If this is effective, the City will pursue developing a fen probability map for the urban growth areas to enable earlier identification of fens so that the planning and design process can be more efficient and effective. Finally, the City and DNR will be co-sponsoring a fen forum in 4/05 about fen restoration and long-term fen management issues as a specific initiative to educate developers and decision makers about the importance of fens and the impact of development on them. Due to the uncertainty of the technological viability of the remote sensing effort and the availability of other grant funds to proceed with the larger scope of the original LCMR project, it will not be added to the SWPPP.

Finally, in 2004 the City continued to advance an ordinance that would strengthen provisions for protecting wetlands (including fens) and other groundwater discharge and recharge features in the hill slope settings around Rochester. Draft language has been prepared, introduced to the Council, and discussed with the development community. It is expected that this ordinance will be brought to the Council for adoption in 2005.

## Owner or Operator Certification

The person with overall administrative responsibility for SWPPP implementation must sign the annual report. This person must be duly authorized and should be the person who signed the MS4 permit application or a successor.

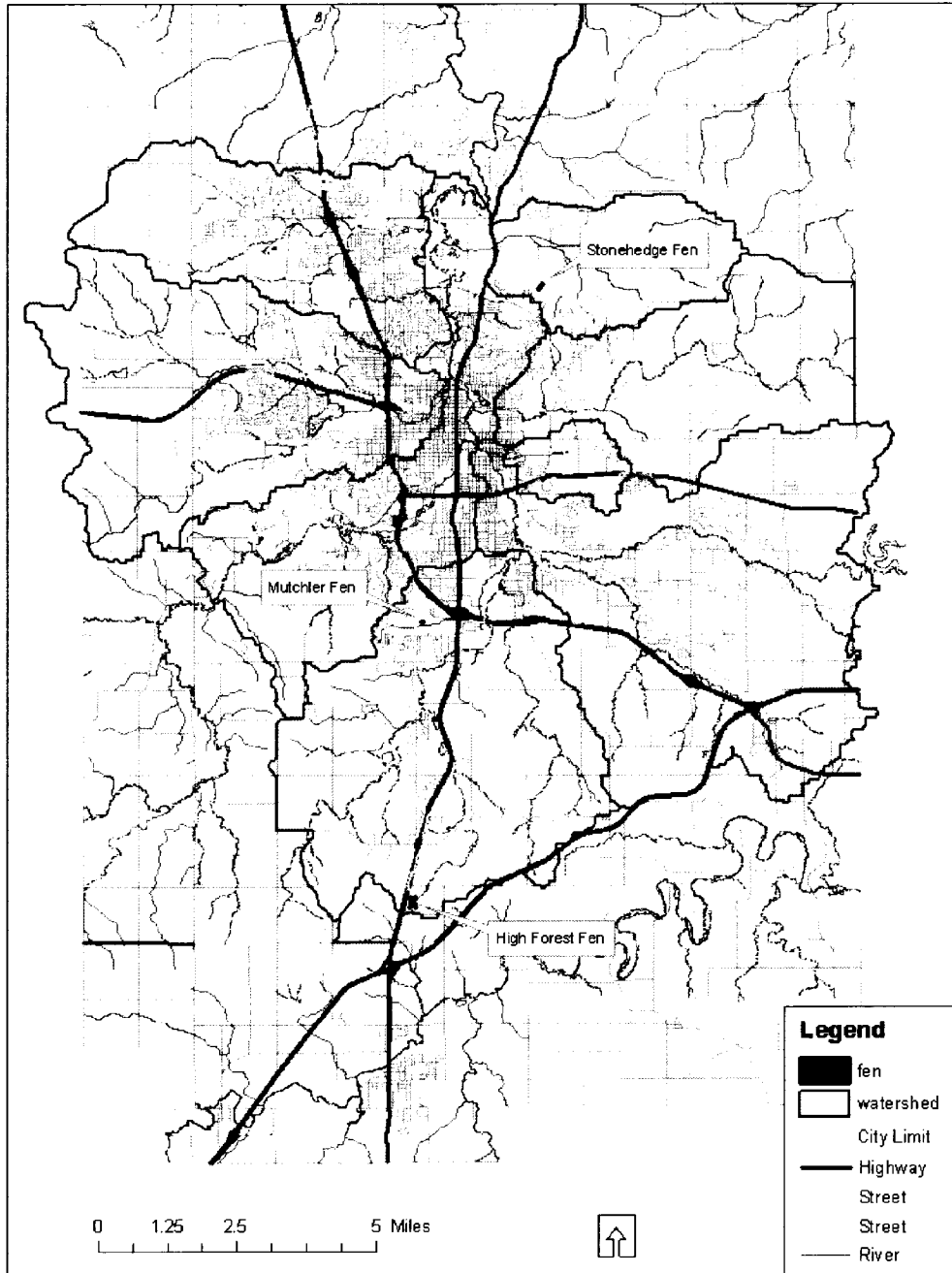
I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete (Minn. R. 7001.0070). I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment (Minn. R. 7001.0540).

Authorized Signature (This person must be duly authorized to sign the annual report for the MS4)			Date
Huberty	Barbara	Environmental & Regulatory Affairs Coordinator	
Last Name	First Name	Title	
Rochester Public Works Department		201 4 <sup>th</sup> St. SE, Room 108	
Mailing Address			
Rochester		MN	55904
City		State	Zip Code
(507) 529-4907	bhuberty@ci.rochester.mn.us		
Telephone (include area code)	E-Mail Address		

Please submit your annual report by March 10, 2005 to:

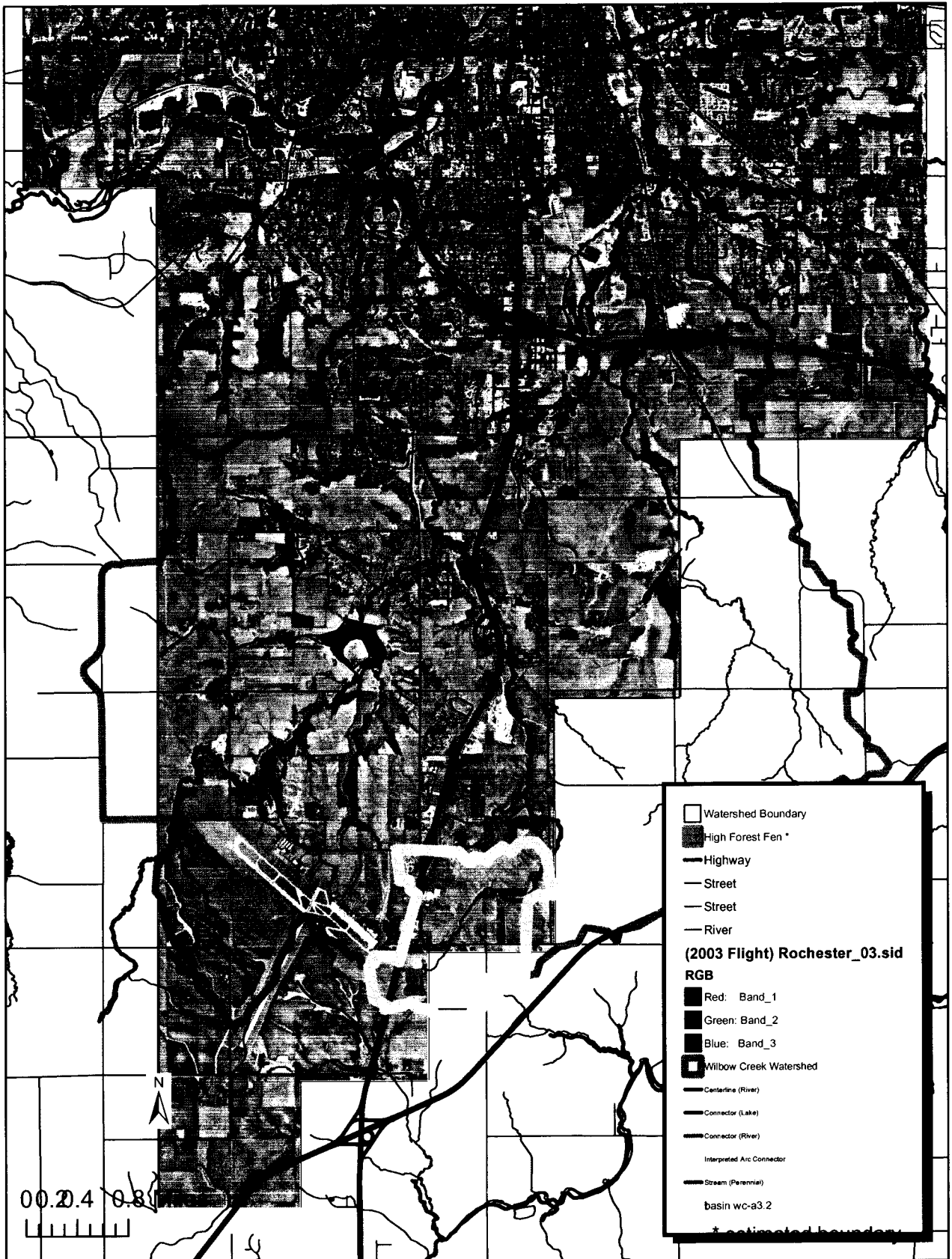
MS4 Stormwater Program  
Municipal Division  
Minnesota Pollution Control Agency  
520 Lafayette Road North  
St. Paul, Minnesota 55155-4194

## Fens in City of Rochester





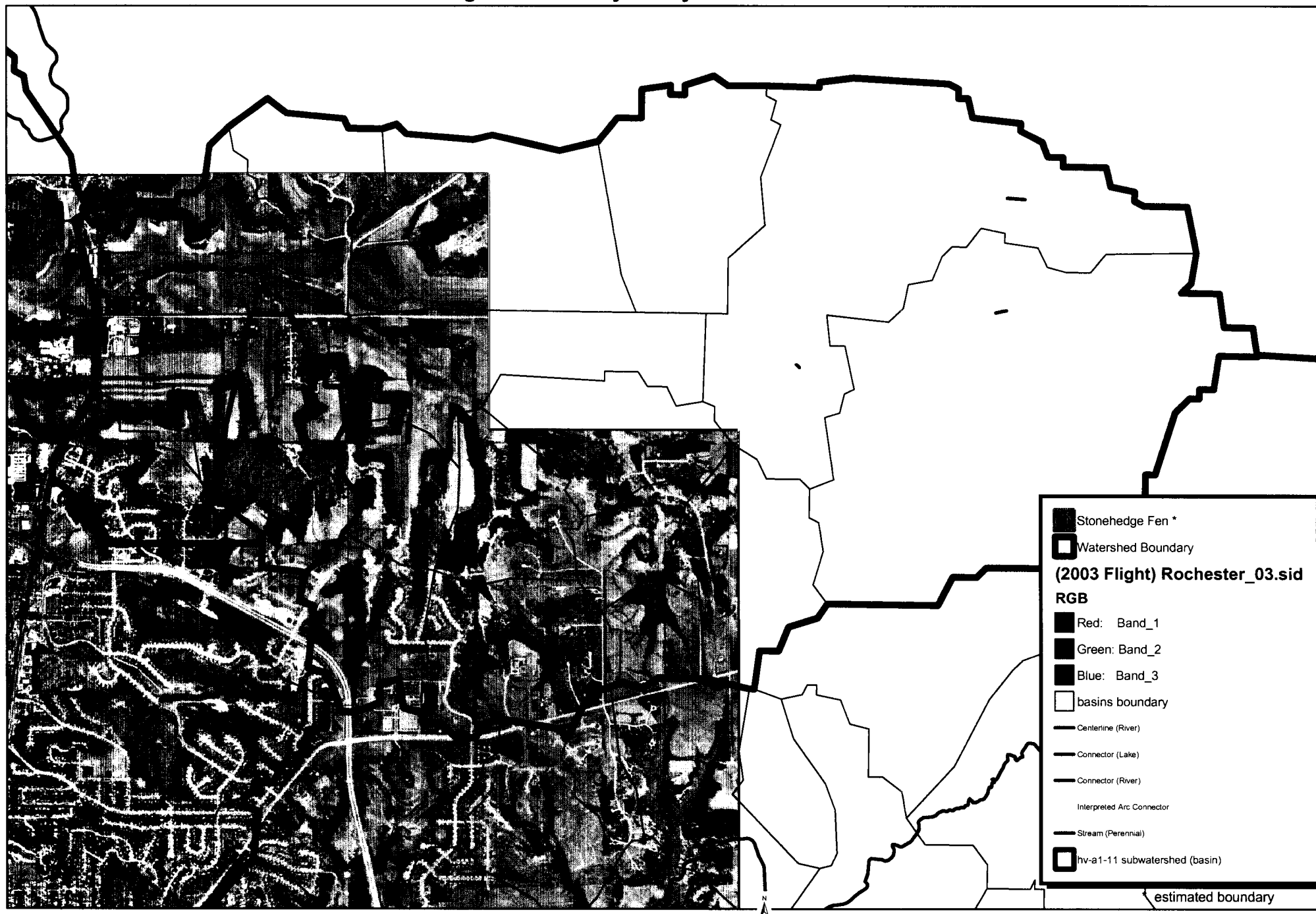
# High Forest Fen - Wilbow Creek Watershed







# Stonehedge Fen - Hadley Valley Watershed - hv-a1-11 basin



0 1,750 3,500 7,000 Feet



# Mutchler Fen - Willow Creek Watershed



